



Nova Scotia

ANNUAL REPORT

*for the year
ending July 31, 1988*

Department of Education



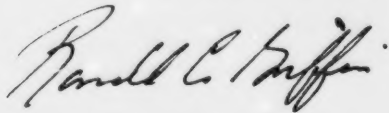
THE HONOURABLE LLOYD R. CROUSE, P.C.
Lieutenant-Governor of Nova Scotia

Sir:

I beg to present herewith the report of the Department of Education for the year ending July 31, 1988.

I have the honour to be

Your obedient servant,

A handwritten signature in cursive script, reading "Ronald C. Giffin". The signature is written in dark ink and is positioned above the printed name and title.

RONALD C. GIFFIN, Q.C.
Minister of Education



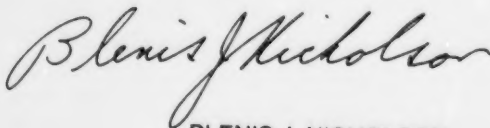
THE HONOURABLE RONALD C. GIFFIN, Q.C.
Minister of Education

Sir:

I have the honour to submit the annual report of the Department of Education for the year ending July 31, 1988.

I have the honour to be

Your obedient servant,

A handwritten signature in cursive script, reading "Blenis J. Nicholson". The signature is fluid and elegant, with the first name "Blenis" being more prominent than the last name "Nicholson".

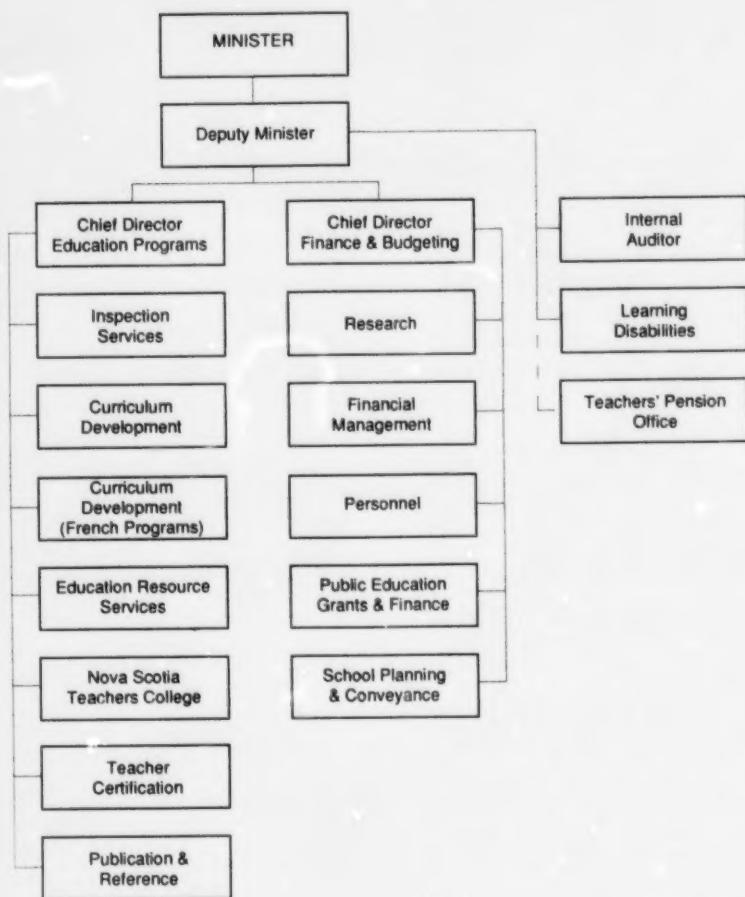
BLENIS J. NICHOLSON
Deputy Minister of Education



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NOVA SCOTIA DEPARTMENT OF EDUCATION - 1987-88



DEPARTMENT OF EDUCATION: ADMINISTRATIVE STRUCTURE

The Department of Education is organized into the two main administrative areas described below, each headed by a Chief Director reporting to the Deputy Minister of Education. In addition, the Internal Auditor and the Director, Learning Disabilities, each report directly to the Deputy Minister. The Internal Auditor is responsible for evaluating the adequacy and effectiveness of the department's systems of management control, while the Director, Learning Disabilities, assesses and makes recommendations regarding policies and services across government departments with respect to learning-disabled people.

During the year under review the department's responsibilities in the area of post-secondary education were transferred to the new Department of Advanced Education and Job Training.

The Teachers' Pension Office, although not part of the Department of Education's administrative structure, receives support services from the department.

Education Programs

The Education Programs area includes the following divisions: Curriculum Development (English and French divisions), Inspection Services, the Nova Scotia Teachers College, Teacher Certification, Education Resource Services, and Publication and Reference.

The Curriculum Development divisions, which are responsible for elementary and secondary education programs, co-ordinate curriculum development, recommend appropriate instructional materials for inclusion in the authorized lists, and provide consultant services. These divisions assist in the planning and implementation of in-service programs and have consultants in a variety of subject areas. Curriculum Development (French Programs) also administers several language bursary and assistance programs funded by the Secretary of State. Curriculum Development (English) operates the department's correspondence study service.

The staff of Inspection Services consult with school boards, school administrative staff, and the general public; provide the Minister and departmental staff with information on the school systems in their inspectorates; serve regionally as interpreters of departmental policy and procedures; co-ordinate school system surveys; and work with the Nova

Scotia Teachers Union and the Nova Scotia School Boards Association in the Teaching Effectiveness Program.

The Nova Scotia Teachers College provides a three-year teacher education program and also offers a variety of courses for teachers interested in furthering their professional education.

The Teacher Certification section supervises and maintains records on the registration and certification of teachers.

The Education Resource Services Program includes the Nova Scotia Museum, Education Media Services, and the Provincial Library. The Museum acquires, preserves, interprets, and displays artifacts related to the natural and cultural history of the province, operates a number of historic buildings throughout Nova Scotia, offers a variety of programs to schools and the general public, and provides financial and advisory support to local museums. Education Media Services provides schools with the resources of a media library, an audio-visual equipment repair service, a microcomputer resource centre, and various audio-visual productions, including educational television programming. The Provincial Library provides various services to the regional libraries of Nova Scotia and, in general, co-ordinates the library service of the province. The Provincial Library also provides assistance to schools through a Co-ordinator of School Libraries.

Publication and Reference publishes periodicals for teachers, consolidations of legislation, directories of schools, and various other bulletins related to education. This section also provides a general editing service for the department, answers inquiries from the public and the news media, and helps to arrange publicity for departmental events.

Finance and Budgeting

The Finance and Budgeting area includes the following: Financial Management, Personnel, Public Education Grants and Finance, School Planning and Conveyance, and Research.

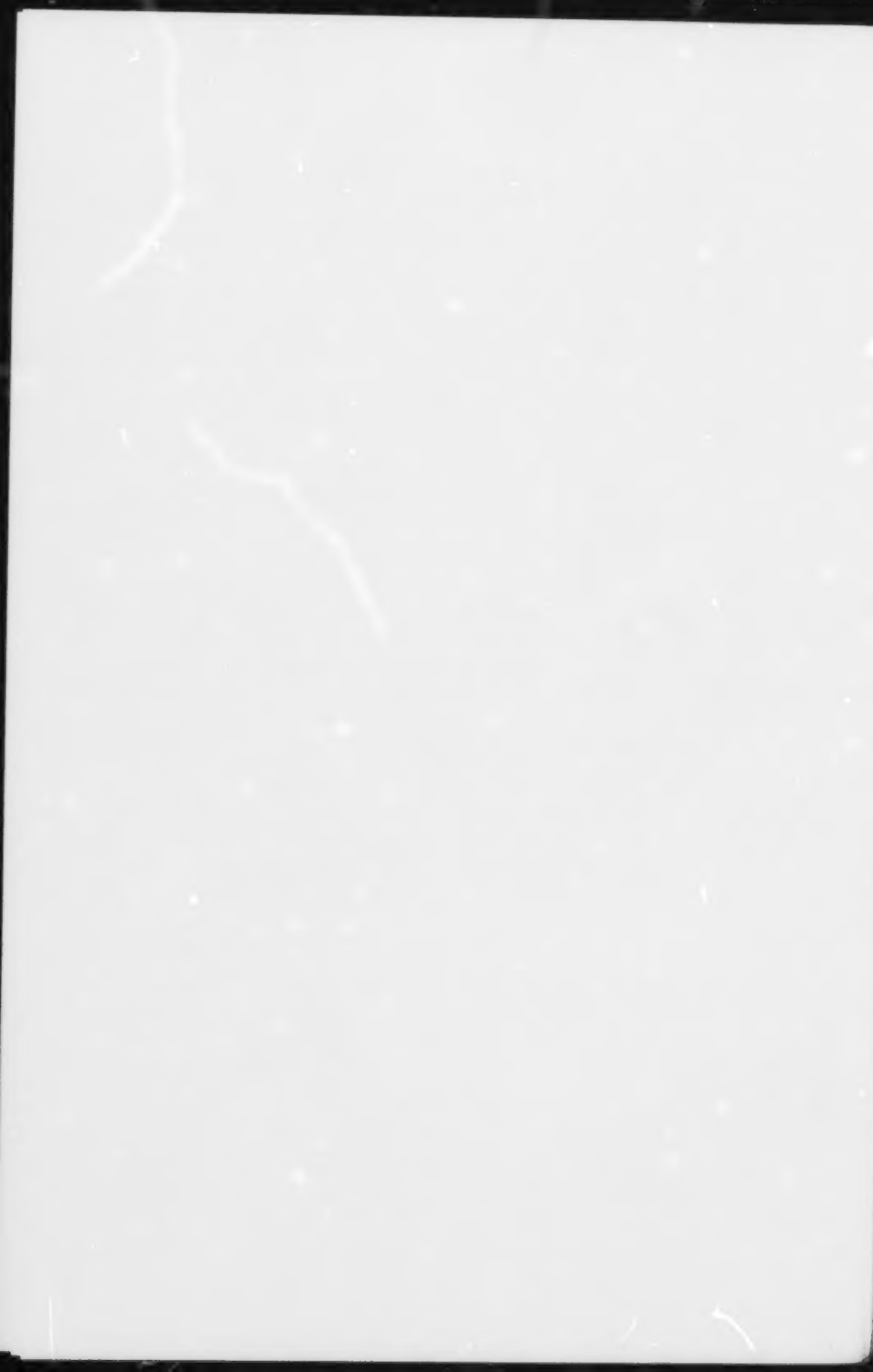
The Financial Management division co-ordinates the budget presentation of the department, controls the internal financial operations of the department, provides an internal mail service, and operates a bureau that supplies school boards with textbooks and other learning materials.

The Personnel section provides for the maintenance of departmental personnel records and administration of other personnel services.

Public Education Grants and Finance co-ordinates the provision of education grants to school boards; reviews school board budgets, revenues and expenditures to ensure compliance with legislation, and regulations; and provides advisory services to school boards to promote sound and consistent financial management practices.

School Planning and Conveyance develops construction programs for all approved school capital construction projects; monitors school construction to ensure all mandatory requirements and departmental standards are adhered to in the planning of new school facilities; arranges for the funding of construction and monitoring to ensure debt payments are made; and monitors school bus purchasing and school transportation systems to promote high standards of cost-efficiency, service, and safety.

The Research division provides for collection and analysis of statistics on teachers, students, subjects taught, and finances; operation of provincial student achievement testing; services related to GED examinations; maintenance and development of the department's centralized database; and advice on the development of departmental management information systems.



EDUCATION PROGRAMS

EDUCATION PROGRAMS

CURRICULUM DEVELOPMENT

During the year under review, several initiatives to assist teachers in using computers were undertaken by the Curriculum section. Three provincial in-services to promote and encourage computer writing at the junior high level were held. The use of computers in industrial arts was the main feature of a computer forum, held at the Nova Scotia Teachers College as a joint venture of Curriculum Development and the Nova Scotia Teachers College's Industrial Arts/Technology Education Department. The program featured a dozen workshops using five different types of computers and a variety of software items including CAD/CAM, CNC Robotics, desktop publishing, and graphics communications, as well as several programs related to industrial arts administration. At another provincial in-service, special education supervisors were introduced to a number of adaptive computer devices and software appropriate for use with a range of students having a variety of disabilities.

A new appointment, a consultant of multicultural services, provides for the recognized need of maintaining and enhancing the liaison with multicultural groups within the province. This appointment will foster through curriculum a more balanced view of Nova Scotia's multicultural diversity and commitment to human rights.

To recognize the efforts of students with special needs, the Department of Education issued its first high school leaving certificates for students who had personalized special education programs developed for them.

Provincial special education supervisors met to explore exemplary curriculum initiatives and programs, to assist with current integration and mainstreaming practices, to acquire additional strategies for solving problems, to improve reports written about students, and to encourage more use of technology (in particular, computers) for students requiring special education.

In co-operation with Education Media Services, videotapes on language learning were produced. *Invitations to Learning*, based on the initiative of two Nova Scotia teachers, was produced for distribution to elementary schools throughout the province. *Considering Writing...*, featuring students sharing their insights about writing and writing with computers, was produced as part of a continuing effort to improve writing in all curriculum areas.

Maritime studies, a new grade 9 social studies course, was launched in over 60 per cent of the province's grade 9 classrooms. Drafts of the five units of the content portion of the provincial curriculum guide were distributed, and in-service sessions were held for all school boards.

At the senior high level, global studies education was an area examined by the social studies committee. Outlines for two initial courses to be offered in grade 12, global history and global geography, were prepared.

A new curriculum guide, concentrating on technology education, was published. The aim of this resource book is to provide teachers with ideas on how new technology can be inexpensively integrated into current industrial arts programs.

Business education task forces worked on four different curriculum documents. *Data Processing 341* and *Office Procedures 241* reflect current office practices and the changes introduced by the electronic office. *Word Processing 241* replaces the former word processing unit and will outline a full course with emphasis on word processing in the workplace. *Business Communications 241* will reflect the needs of students entering the business world and will support the philosophy of the language arts program at the secondary level.

The curriculum division continued to implement the junior high science program through the publication and distribution of *Science in the Junior High* teaching guide.

During the 1987-88 school year, two new mathematics committees began reviews and revisions of the curriculum at junior high grades 7 and 8 and at the 200-level in high school. The Alternate 9 mathematics program was presented at an in-service for 13 districts. The implementation of curriculum revisions in programs at grades 11 and 12 at the 400-level continued to be monitored.

Two new documents underlining the philosophy and direction of mathematics for the 21st century were released in draft form by the National Teacher Council of Mathematics and the National Council of Supervisors of Mathematics. These have been shared with committee and task force members and will be the basis for recommended changes in instruction, content emphasis, and use of technology at all levels of mathematics.

Following the successful in-service work and piloting of a new junior high life skills program in 1986-87, the curriculum division provided assistance to all district boards for in-service sessions and implementation of the new, mandatory personal development and relationships (PDR) program offered at the junior high level. The in-service and implementation activities, while including program content, also emphasize the importance of using teaching strategies and techniques currently supported by research.

Mandatory AIDS education programs were developed, in-service work was done, and implementation was begun in all junior and senior high schools throughout the province.

The high school music program is under revision. The new guidelines will emphasize a core program designed as Academic Music (history, theory, ear training), together with separate sections for instrumental and Choral/Vocal Music.

In the Correspondence Study Service of Curriculum Development, 2,412 students registered in public school correspondence study courses, and 139 students registered in technical correspondence study courses. Development and revision of correspondence study courses continued.

CURRICULUM DEVELOPMENT-FRENCH PROGRAMS

Curriculum Development, Implementation and Maintenance

A highlight of the year was the publication of the Maritime studies French textbook and teachers guide, and the implementation of the program in September 1987.

Guidelines for grade 9 social studies and P-6 French language arts were published and will be implemented in the fall of 1988. Guidelines for core French (4-6) neared completion, and a first draft of the grade 7 social studies guidelines was produced. Work began on guides for 7-9 French language arts and for junior high core French.

Careers Ahead, in its English and French editions, was revised and distributed to grade 9 students. Materials for use by schools during Canada Career Week and throughout the year in guidance and career education were produced in both English and French.

Curriculum Development staff continued to provide support with the implementation of programs upon request from district boards and schools.

Existing programs were maintained and strengthened by the addition of new learning materials to the authorized materials list. New materials were listed for French language arts, social studies, science, core French, personal development and relationships, and music. Support materials for music and science are being evaluated for possible addition to the materials list.

The evaluation of films and videocassettes in French continued with co-operation of Education Media Services. These evaluations have produced many recommendations for additions to the French Media Services catalogue. The evaluation of computer software in French continued to be an important part of support material evaluation.

Visitations by Curriculum Development Staff to District Boards

During the period covered by this report all district boards where French first language and immersion programs are taught were visited by staff members. Consultants from the French section also contributed to the Cumberland and Dartmouth district surveys in reviewing immersion and French core programs.

Co-operation with Other Organizations and Government Departments

A member of the division's staff represents the Department of Education on the Committee of the Program Development Assistance Fund of the Nova Scotia Teachers Union. Staff members also represent the Department of Education on the Nova Scotia Council of Multiculturalism in Education and on the administrative council of ACELF (Association canadienne d'éducation de langue française), which is a Canadian association comparable to CEA dealing with education in French across Canada.

The core French consultant is participating in the interprovincial French core study on issues pertaining to the teaching of French as a second language.

Staff members administer various language bursary programs for students and teachers across the province, as well as special projects and language monitor programs. Staff members also work on joint

projects with other Maritime provinces in various subject areas, under the direction of the Administrative Council of the Council of Maritime Premiers. Such projects include supplementary materials for Maritime studies, French Language arts, and special education programs, as well as comprehension tests.

INSPECTION SERVICES

Inspection Services has 10 inspectors of schools and 10 secretaries in field offices across the province. The administration office staff consists of a director, an assistant director, and two secretaries.

During the year under review, Inspection Services continued its activities in three major evaluation initiatives of the department.

Through the leadership of the assistant director, the Teaching Effectiveness program—a co-operative venture of the department, the Nova Scotia Teachers Union, and the Nova Scotia School Boards Association—continued to grow. At the end of the academic year, 21 of the 22 school boards were involved in the program, and 80 per cent of the province's principals had participated in workshops and in-services. Seven teaching strategies workshops, attended by 240 administrators, were held during the summer of 1988. Pre-service training programs have been developed for new and prospective administrators. In addition, 15 boards have adopted or drafted policies on formative support and supervision.

The school system survey report for the Halifax District School Board was presented. In addition, two other system reviews—Cumberland District School Board and the Dartmouth District School Board—were completed. The latter was a co-operative review carried out jointly by an internal team selected by the school board and an external team from the Department of Education. Planning for the surveys of Lunenburg County and Colchester-East Hants District School Boards was begun.

Smaller reviews of individual schools or services were carried out in the Digby, Lunenburg, and Pictou District School Boards, and planning for two others in co-operation with the Department of Community Services was initiated.

Inspection Services has played a leading role in the development of a new Nova Scotia Achievement Test scheduled to be administered to all grade 6 students in the province beginning in 1990. This division also

worked closely with School Planning in the assessment of capital construction proposals.

The inspectors consulted with and advised school boards and their administrators on a variety of matters related to the improvement of instruction. Inspectors attended all board meetings and many board committee meetings and met regularly with senior staff. During these meetings each inspector acted as a resource person, communicated departmental policies, and helped boards develop policies and procedures consistent with current directions of the Department of Education. Through these meetings and contact with schools and the public, inspectors were able to advise the Minister on actual or potential matters of concern and other issues such as capital construction requests.

Inspectors monitored private schools and individual cases of home study, ensured that schools, school boards, and teachers operated within the statutory guidelines of the province, and audited data submitted by school boards for formula funding and other statistical purposes. The inspectors also approved board level in-services and monitored all pilot programs. In addition, assistance with the interpretation of the provincial testing program was provided at the board level.

The adult education activities and interests of the Department of Education are now being co-ordinated under Inspection Services. This new assignment meets a need expressed by several school boards.

TEACHER CERTIFICATION

The Office of the Registrar—Teacher Certification is responsible for issuing all teachers' certificates, maintaining teaching service records, and approving courses and programs for certification upgrading. In addition, the office provides verification of this information to interested parties, including school boards and other departments of education.

During the period August 1, 1987 to July 31, 1988, teachers' certificates and permits were issued as follows:

Initial Certificates	705
Upgraded Certificates	606
Permanent Certificates	328
Renewed Certificates	1,291
Reclassifications	8
Name changes	54

Duplicate Certificates	107
Permits	25
Vocational Permits	21
Regulation 48 Certificates	24
Total	3,169

In addition, the office provided other services as follows:

Verification of Certification and Service	2,191
Detailed Records of Teaching Service	741
Statements of Professional Standing	487
Course Approvals	455
Program Approvals	341
Revised Data Verification Forms	200

The Registrar's office also responds by telephone, mail, and personal interviews to a large volume of inquiries from teachers, school boards and others interested in teacher certification.

NOVA SCOTIA TEACHERS COLLEGE

Founded in 1855, the Nova Scotia Teachers College has had a long and distinguished history in teacher education in this province. Over these 133 years the teacher education program has evolved in length and quality. The first programs were six months in duration; succeeding programs became one year, then two years, and in 1974, three years. In 1981 an optional fourth year was made available for students who would go on to university for a Bachelor of Education degree.

The past year and the year to come will likely stand out as especially significant in the evolution of the College. At graduation ceremonies on May 21, 1988, in addition to the awarding of 111 Associate in Education diplomas, the College was able, for the first time in its history, to have its principal, jointly with the presidents of Acadia and Mount Saint Vincent Universities, present three Bachelor of Education degrees. These were earned by students who had gone to the universities for their third year and had returned to Teachers College for their fourth and final year. Furthermore, on April 18, 1988, legislation was proclaimed that empowers the Minister of Education to authorize the College to confer degrees as specified by the Minister. Consultations are under way with the Nova Scotia Teachers Union, the Nova Scotia university presidents, and the MPHEC to develop the most effective and beneficial degree program for

the College's teacher candidates.

In other developments this year, initial steps were taken towards bringing the Child Development Services Program more closely under the umbrella of the College, thus ensuring continuity of the program.

French education has received a great deal of attention chiefly because so many of the school boards of the province require some fluency in French of both permanent and substitute teachers who apply for jobs. While the College does not impose a French requirement, all students are being encouraged to take French. Not only are incoming students made aware of the importance of French, but the College has accepted students with a Bachelor of Arts degree and a major in French, with a view to giving them a strong methods course and studies that include teaching French in immersion classes.

Two computer committees were established to analyse present operations and point out directions for the future. The Instructional Computer Committee is concerned with using computers as an instructional tool; the Administrative Committee with administrative uses. Notable advances in computerization have been made in the systems used in handling materials in the Learning Resources Centre.

The College's Continuing Education Department has maintained its course work offerings for practising teachers, for vocational teachers through the Nova Scotia Summer School, and for elementary-secondary teachers through the Teachers College evening extension and summer school programs. French education has been a major concern in continuing education. A growing number of people who want to try courses to find out if they are appropriate vehicles for further education have been encouraged to do so. Forty-two such students were successful in courses taken during the past year.

The College facilities continue to be heavily booked throughout the year. Saint Mary's University has offered courses at the College in both B.Ed. and M.Ed. programs, with many teachers taking advantage of this opportunity. The Department of Education has used the College facilities for in-service sessions, most notably for the "Teaching Effectiveness Nova Scotia" program for school principals, now in its third summer.

The College operates an Outdoor Field Study Centre at Manganese Mines, Colchester County. Over 3,000 people, mostly in school groups, use the Centre each year. It was with great pleasure that the College

learned that Scott Maritimes Limited, the company that originally leased land to the government for use by the College, will help in upgrading the facility in order to promote good forest conservation practices among its many users.

The Nova Scotia Teachers College Educational Trust Fund, begun in March 1987 with \$2,000, ended the academic year with close to \$20,000, thanks to generous donations from alumni, faculty, and friends of the College. The interest from the fund will be used for scholarships and for visiting lecturers.

Nova Scotia Teachers College Statistics

Numbers seeking admission to the teacher education programs:	over 500
Number of these interviewed:	over 300
Number accepted	130
Of those replying to the annual survey of last year's graduates:	
9 had full-time teaching positions in Nova Scotia	
3 were teaching outside Nova Scotia	
19 were substitute teaching	
33 were attending university for B.Ed. degrees	
13 were employed in jobs other than teaching	
1 was unemployed	
Enrolments at the College:	
(Regular day-time programs)*	
Teacher Education Program	333
Child Development Services	225
(Continuing Education)	
Summer School	304
Evening Extension	345

*An additional 20 students are enrolled in job readiness training operated on the College campus by the Department of Advanced Education and Job Training.

EDUCATION RESOURCE SERVICES

Nova Scotia Museum Complex

Collections development continued in all areas through donation, acquisition, and field work, with many significant additions. In particular, the industrial collection grew in preparation for the new Museum of Industry and Transportation in Stellarton. Other new items included a 1778 sampler in pristine condition, an important collection of patent medicine bottles, three manuscript volumes of information on Uniacke House compiled by one of the last family members to reside there, a comprehensive collection of *Sphagnum* mosses transferred from the National Research Council, and important fossil specimens.

This year a research policy was approved by the Museum Board of Governors. While many staff have some involvement with research, a greater emphasis on research is required now for future use. Research files on industry in Lunenburg, Kings, and Annapolis counties were compiled, some field research was carried out in support of the Special Places Program, the history of the CSS *Acadia* was studied, and support was given to the Maritime Breeding Bird Atlas project and to the Museum's research associates. Archaeological investigations included those of the Museum of Industry site, Fort Point, the Minas Basin, the Castle Fredrick estate (DesBarre's residence and an Acadian village), the Bain site in Yarmouth, and White's Lake, Halifax County. Papers written by staff were published in various professional journals and catalogues on fishes, small mammals, landscape analysis, ethnology, graveyards, and other subjects.

At the Maritime Museum of the Atlantic a major exhibit on Samuel Cunard and his steamship line was installed. Various programs associated with the 200th anniversary of his birth were held. A major photographic exhibit on the Halifax Explosion opened in December and proved so popular that it was decided to leave it in place for a year. The 75th anniversary crew reunion of the CSS *Acadia*, including a dinner with the Premier as host, completed the enhanced interpretation program for that vessel.

At the Nova Scotia Museum the new geology gallery was opened after many years of collecting, research, interpretation, and design by staff. Major temporary exhibits from other museums were featured on jade, the Canadian Pacific Railway, waterfowl, dinosaurs, early settlement in Canada, Eastern Christian religion, and circuses. Temporary

exhibits on royal souvenirs, Christmas, and Peggy's Cove and a travelling exhibit on seed catalogues were prepared. An exhibit on the Tusket River ecological reserve as constructed and installed at the Yarmouth County Museum, and a temporary exhibit on the Inglis-Quinlan collection of ceramics was placed on display at the Settlers' Museum in Mahone Bay.

Public programs totalling 387 were held at the various locations of the Nova Scotia Museum Complex over the year. Attendance for the period was 654,562 which is an increase over last year.

Six branches gave organized school classes: at the Nova Scotia Museum and Ross Farm demand continued to be greater than could be handled. School loan kit use was up in Halifax but showed wide variations in some of the other 15 centres across the province. Further study of these variations is planned. A new prototype kit on classification was circulated and tested over the year and promises to be an extremely popular addition to the museum's science resources.

Following the Sea, co-published with Nimbus, was a major accomplishment and received national critical acclaim and large sales. In addition, the museum published *First Impressions* (a history of the printing industry in Nova Scotia), 12 new postcards, 6 curatorial reports, 9 *Infos* (6 in French), 2 editions of *The Occasional*, the bimonthly *News & Views* (60,000 copies), the Learning Resources Catalogue (13,000 copies), and brochures for the Tusket River and MacFarlane Woods nature reserves.

The province's first two nature reserves were designated under the Special Places Protection Act. These were a rare plant site at Tusket River in Yarmouth County and a privately owned forest site, MacFarlane Woods, in Inverness County.

Major capital projects included the restoration of the salt-bank schooner, the *Theresa E. Connor*, at the Fisheries Museum of the Atlantic. Construction of the Museum of Industry and Transportation began. This \$11.4-million building should be completed in early 1990. In preparation, work has begun on preparing some of the larger artifacts for exhibit, e.g., the Volvo and McKay automobiles, colliery locomotives #5 and #151, and a sleigh from the Drummond Mine in Westville.

Over 300 volunteers assisted in virtually every branch in the complex, by donating time to museum teaching, museum board work, collection

management, filing, etc. This important community support continues to be a key strength of the museum.

The answering of public inquiries by telephone, letter or in person, particularly at the two Halifax branches, is a service for which there is ever-increasing demand and a resulting increase in the resources required; however, this service is felt to be an extremely important means of serving the many and varied museum publics. These Halifax branches also provide support to over 45 societies who use museum facilities for their programs.

Federal funding (Secretary of State and Department of Communications) supported various museum programs such as translation of exhibit labels, *Infos*, and branch brochures into French; research and planning for an exhibit about Sable Island; cataloguing and computerization of collection records; and the provincial travelling exhibition program. In this program, 16 exhibits were circulated to 17 venues for a total of 31 showings. In addition, the museum's first conservator was hired with federal funding. A very important preliminary survey of the conservation requirements of all 24 branches was begun.

Operating grants totalling \$686,300 were given to 15 year-round local museums and 36 seasonal local museums across the province. This is a significant increase over last year. Three of these, MacDonald House Museum (Lake Ainslie), Les Trois Pignons (Cheticamp), and the Mahone Bay Settlers Museum, received grants for the first time. The Cole Harbour Heritage Farm Museum qualified for a year-round operating grant for the first time. In addition, museum improvement grants of \$24,800 were given to two seasonal museums.

Education Media Services

One of the highlights of 1987-88 was Education Media Services' (EMS) participation in the annual conference of the Association for Media and Technology in Canada. As a result of EMS staff's agreeing to do the planning work, Nova Scotian administrators and teachers were able to hear and work with a number of notable educators.

A new venture for EMS was its involvement, along with the Department of Fisheries, in a training program for fishery training personnel from the Caribbean.

Media Library and Repair

Emphasis has been placed on developing the media collections in the areas of mathematics and problem solving, health, language arts, and home economics. A concentrated effort was made to distribute widely a highly acclaimed video on AIDS education.

CBC transmission time for school broadcasts was reduced from one hour to one half-hour each day; however, increasing access to video-players has meant that schools are relying less and less on receiving programs through direct broadcasts. On the other hand, the use of the Atlantic Satellite Network has been increasing; not for classroom reception but for province-wide preview services and as a means of off-air copying of EMS resources.

As a result of the negotiations between CBC and the Council of Ministers, EMS has now acquired a bank of films of CBC series including such classics as *The Music of Man*, *The Nature of Things*, and several of Pierre Berton's series on Canadian history.

Several workshops on the effective utilization of media have been developed and conducted for district-wide in-services.

The system for preparing new film and video catalogues has now been fully automated, and a revised video catalogue was prepared. Speciality catalogues were produced on personal development and relationships, careers, and junior high science. As well, a telephone-answering service has been installed to handle after-hours orders.

Several media library resources are being made available through the Nova Scotia School Book Bureau. This allows a convenient, additional means of access to schools.

Media Productions

The Still Photographic Unit played a key role in two museum projects. The first which was developed in co-operation with the Unit took place on the anniversary of the Halifax Explosion and involved the Color Photographic Guild in rephotographing scenes that had been depicted in the extensive 1917 collections. The second project took place in Sherbrooke. Three photographers (two from EMS and an invited professional) spent two days photographing the village. Because of the close co-operation of the staff, a very interesting and fresh collection is now available for educational and public relations needs.

Overall media production from the EMS video studio, with a regular staff of two, comprises some 15 major, original projects in small format and video (some of them series). The programs were developed for Curriculum Development, the Nova Scotia Museum Complex, and the Department of Advanced Education and Job Training. The EMS studio has also undertaken a great many video transfers of small format and film resources for the same groups and for the EMS video library. The following are some of the highlights from the production schedule.

Salt of the Earth and Real Tin. These two, 20-minute videos about the Pugwash Salt Mine and the Rio Algom Tin Mine, respectively, were developed in co-operation with the Department of Mines and Energy and the Nova Scotia Museum to raise the awareness of Nova Scotian secondary school students about our resource industries. *Salt of the Earth* was selected for screening at Atlantic Festival Atlantique '87.

Changes in the Land. This is a filmstrip developed under a grant from the Nova Scotia Teachers Union Program Development Assistance Fund by Don Keith, a science curriculum supervisor in the Dartmouth school system. The program defines and illustrates two major forces in the geology of Nova Scotia—weathering and erosion.

Work in Sight. This is an in-service video about the Co-op Education Program of the Atlantic Provinces Resource Centre for the Visually Impaired. It is a co-production with the Atlantic Provinces Special Education Authority.

Restoration in Progress: The T. E. Connor. This is a video documentary about the restoration at the Atlantic Trawler Shipyard, Lunenburg, of the salt-bank schooner, *T. E. Connor*. The program was shot and re-edited in four stages to reflect the corresponding stages in the ship's rebuilding. The several versions of the program were shown daily throughout the summer at the Fisheries Museum of the Atlantic, where the *T. E. Connor* is normally on display.

Invitation to Learning. This is a five-part, in-service video series describing the application of whole language techniques in primary and grade one classrooms. The series features authors Jane Baskwill and Paulette Whitman whose publisher, Scholastic Publications, co-produced the series with EMS and will market it outside Nova Scotia. *Invitation to Learning* was an award winner at the 1988 Media Festival of the Association for Media and Technology in Education in Canada.

Training and Consultation

Staff were active participants in school surveys in Cumberland and Dartmouth, a series of provincial workshops on improving writing in junior highs, a curriculum supervisors workshop, and a workshop for industrial arts teachers at the Nova Scotia Teachers College.

The Microcomputer Resource Centre continues to attract teachers, district board staff, and pre-service teachers to evaluate hardware and software prior to purchase.

Almost all staff of the Nova Scotia Teachers Union attended a one-day, hands-on workshop on computers in education.

Provincial Library

Amendments to the Libraries Act, passed in May 1987, set January 1, 1988 as the date for implementation of a new funding arrangement for regional public libraries. The new formulas will result in equalized funding for 9 of the 11 regional public library boards by 1989, based on a guaranteed per capita budget, a municipal library tax on uniform assessment, and a residual provincial grant. There are also provisions for French language grants for regional library boards where more than 12 per cent of the population served is French speaking, and for capital grants to assist municipalities in the construction or renovation of facilities for branch libraries.

During the year provincial funding of \$6.1 million for operating and branch maintenance grants was distributed to 11 regional library boards (with 68 branch libraries), and French language grants totalling \$47,450 were made to the Eastern Counties Regional Library Board and to the Western Counties Regional Library Board. Capital grant in the amount of \$1.5 million were approved for new library facilities in Pugwash, River Hebert, Elmsdale, and Cole Harbour, and for expanded facilities in New Glasgow.

Two expanded branch libraries were officially opened during the year. The Kentville Library moved to new, larger quarters in late 1987, while McConnell Memorial Library in Sydney added a new wing, which opened early in 1988.

The electronic mail network, linking all 11 regional public libraries and the Provincial Library, was completed when the Cape Breton Regional Library acquired a computer and ENVOY 100.

The Provincial Library catalogued and processed 66,443 items for the regional public libraries, an increase of 16.7 per cent over 1986-87. New titles totalling 15,276 were added to the province-wide microfiche catalogues of regional public library holdings.

The on-line literature searching service expanded with the addition of two databases, Dunservice II and BRS.

The Black Cultural Centre continued to receive assistance in the organization and cataloguing of its Resource Centre collection. The Co-ordinator, School Libraries, has been appointed to its Library Committee and was presented with an award of merit in appreciation of her work.

The Provincial Library was the host for the annual meeting of the Provincial and Territorial Library Directors, which met in conjunction with the Canadian Library Association Conference in Halifax in June 1988.

Staff participated in conferences, seminars, and workshops held by the Nova Scotia Library Association, Nova Scotia School Library Association, Library Boards Association of Nova Scotia, Atlantic Provinces Library Association, Association of Atlantic Publishers, Canadian Library Association, National Library of Canada, CNIB, and the Library of Congress.

The Nova Scotia School Library Association, under the auspices of the Nova Scotia Teachers Union, published *Nova Scotia School Libraries: Standards and Practices*. The Co-ordinator, School Libraries, participated in the official presentation of this document to the Minister of Education and discussed its recommendations with departmental staff.

New and updated editions of the following were published: *The Directory of Nova Scotia Libraries*, *The Directory of Interlibrary Loan Policies and Duplication Services in Nova Scotia Libraries*, *The Nova Scotia Provincial Library Interlibrary Loan Procedures Manual*, and *Nova Scotia Regional Public Library Statistics*.

PUBLICATION AND REFERENCE

Publication and Reference is responsible for answering general telephone and written inquiries to the Department of Education from students, teachers, parents, the news media, other education departments or institutions, and the general public.

Departmental publications produced by the section included the directories of schools and the *Education Nova Scotia* bulletin, containing official notices, articles on departmental policies, and miscellaneous information for teachers.

Assistance was provided by the Publication and Reference section to other sections of the department in the production of curriculum documents and other miscellaneous publications.

LEARNING DISABILITIES



LEARNING DISABILITIES

In March 1988, a Director, Learning Disabilities Research and Information, was appointed to begin an assessment of strengths and weaknesses of policies and services across government departments, with regard to learning disabled individuals. The goal will be to use this information to make recommendations to strengthen and improve policies and services, promote interdisciplinary communication and co-operation, and promote professional development related to learning disabilities.

During the year under review the methodology to be used to assess programs and policies related to learning disabilities across the district school boards was planned. Initial contacts with other departments were made. Information was gathered regarding policies and services in other provinces across Canada for the learning disabled. An annotated bibliography of relevant articles and brochures was begun. In addition, a questionnaire survey of high schools was carried out to determine the estimated number of learning disabled graduates, their post-secondary education plans, and modifications and supports currently available at the high school level for learning disabled students.



FINANCE AND BUDGETING

FINANCE AND BUDGETING**RESEARCH**

The Research section collects, processes, and reports information on enrolments, teachers, subjects taught, finance, and student achievement in the public school system of Nova Scotia. To perform this service, the section operates and closely maintains the department's centralized database system. The system is continually reviewed to ensure that it keeps pace with administrative and information changes.

The major priority for the Research section is to increase the department's analytical capability so that information, whether concerning students, finances, teachers, or student achievement, will be more useful in the decision-making process. At this time, the optimum use of computer capacity for this purpose is the first and obvious priority.

The Nova Scotia Achievement Tests at grade 9 and grade 12 levels continued over the past year and supplied information for curriculum development at the local and provincial level. New methods of presenting information in a graphic form have increased the usefulness of results and made new interpretations possible. Work on a grade 6 level of the test has been progressing, and it is proposed to do sample testing in the fall of 1988 to allow further development and equating with the present levels of the test.

The high school equivalency program (GED tests) has continued as a highly successful program, and grade 12 certificate No. 25,000 was presented during the year, the first certificates having been presented in 1969. Revisions of the tests that will be implemented in the fall of 1988 include a written essay as part of the language requirement. This modification should increase even further the high acceptance of this method of measuring academic achievement.

Research staff administers the department's role in teacher exchange programs. Teacher exchange was at an all-time high in the province during the year under review, with 16 teachers involved in the program through exchanges to the United Kingdom, the United States, Australia, and three Canadian provinces.

SCHOOL PLANNING AND CONVEYANCE**School Planning**

The following 34 school capital projects were approved during the year with a total estimated value of \$78,733,700.

Approval Dated	School Board	Project	Estimated Cost
5/8/87	Cape Breton	Sydney River Elementary School	\$3,600,000
5/8/87	Cape Breton	Glace Bay High School	9,500,000
1/9/87	Halifax/Bedford	Ocean View Elementary- Addition	2,674,000
9/9/87	Kings County	Cornwallis District High- Window Replacements	218,500
29/9/87	Northside-Victoria	Cabot High- Addition and alterations	1,400,000
6/10/87	Antigonish	St. Andrew's Consolidated- Addition and alterations	2,000,000
6/10/87	Antigonish	Rev. H.J. MacDonald- Addition and alterations	1,500,000
14/10/87	Northside-Victoria	St. Joseph's Elementary- Addition and alterations	2,500,000
20/10/87	Kings County	Kings Regional Vocational- Roof replacement	200,000
20/10/87	Pictou	Scotsburn Elementary School	2,700,000
27/10/87	Northside-Victoria	Sydney Mines Elementary School-Gymnasium	1,300,000
27/10/87	Clare-Argyle	Clare District High- Addition and alterations	1,650,000
17/11/87	Lunenburg	Lunenburg School Bus Garage	1,500,000
8/12/87	Digby	Digby School Bus Garage	425,000
8/12/87	Guysborough County	St. Mary's School- Conversion	750,000
12/1/88	Clare-Argyle	West Pubnico- Addition and alterations	1,500,000
12/1/88	Inverness	Inverness Junior-Senior High School	5,728,000
16/2/88	Kings County	Berwick School- Addition and alterations	3,500,000
16/2/88	Guysborough County	Canso High- Addition and alterations	2,100,000
23/2/88	Richmond	Louisdale School- Addition and alterations	2,000,000
1/3/88	Annapolis	Annapolis Royal Regional Academy- Alterations	2,500,000

8/3/88	Halifax District	Queen Elizabeth High— Alterations/accessibility	414,700
10/3/88	Halifax/Bedford	George P. Vanier Junior High— Addition and alterations	2,000,000
25/5/88	Halifax/Bedford	Holland Road Elementary— Addition	650,000
25/5/88	Hants West	Windsor Elementary School	3,500,000
21/6/88	Lunenburg County	Bridgewater Jr.-Sr. High— Addition and alterations	3,100,000
21/6/88	Lunenburg County	West Northfield Elementary— Addition and alterations	1,400,000
21/6/88	Lunenburg County	Chester High School	5,800,000
6/7/88	Annapolis	Middleton Regional High— Alterations	3,000,000
12/7/88	Halifax/Bedford	William King Elementary— Addition and alterations	2,600,000
19/7/88	Clare-Argyle	St. Martin— Addition and alterations	2,500,000
19/7/88	Pictou	East Pictou Rural High— Alterations	496,500
26/7/88	Northside-Victoria	Bras d'Or Elementary— Addition and alterations	2,707,000
26/7/88	Northside-Victoria	George's River Elementary— Addition and alterations	1,320,000

Thirteen projects were completed during 1987-88. Three projects were new elementary schools; one was a new junior high school; six were additions and alterations to existing elementary schools; one involved an addition and alterations to an existing high school; and two were alterations to an existing high school and regional vocational school respectively. In total, the projects created the following additional instructional areas: 83 classrooms, 25 specialist areas, 5 special education classrooms, 7 libraries, and 10 gymnasiums.

The Department of Government Services carried out all planning and construction-related activities on the approved and completed projects for the Department of Education on behalf of the school boards.

Ten emergency projects, with an estimated cost of \$840,900, were approved in 1987-88 and one asbestos-abatement project (Cambridge & District Elementary School), with an estimated cost of \$142,114, was carried out during this period.

Staff also participated in school system surveys conducted by the division of Inspection Services; in-service training sessions conducted by

district school boards for maintenance and janitorial staffs; and the development of a building operators course for the training of school building operators.

Conveyance

Staff continued to be involved with conducting comprehensive conveyance system studies for school boards in an effort to improve the efficiency of school conveyance operations.

Two approved pilot projects with selected school boards in the area of computerized school bus routing programs were monitored in an effort to measure the advantages of adopting such systems. Both systems will be operational commencing with the 1988-89 school year, and assessment will continue.

Staff participated in the Nova Scotia Safety Council Conference and the Eighteenth Annual Pupil Transportation Conference. At the latter conference, the Dr. H.M. Nason Achievement Award was presented to the Hants West District School Board. The second place award was awarded to both the Antigonish and Inverness District School Boards, on behalf of the Department of Education, the Department of Transportation and Communications, and the Board of Commissioners of Public Utilities. The 1987 Nova Scotia School Bus Contractors Achievement Trophy, recognizing efficiency in private school bus contracting, was presented to Gerald Bezanson, a contractor with the Kings County District School Board.

Staff participated in school system surveys conducted by the division of Inspection Services and were involved in the follow-up consultation with the school board. Other activities included:

- participation in in-service training sessions conducted by district school boards for conveyance staffs;
- assistance to the Atlantic Provinces Special Education Authority through the selection of conveyance for hearing impaired students, and through co-ordination of such services with district school boards;
- co-ordination of gathering of transportation statistics for Statistics Canada;

- participation in the development of school bus service between Long Island and Brier Island in Digby County (this involved the procurement of a specially equipped school bus and developing safety standards and practices for a school bus required to travel on the ferry which operates between the two islands);
- participation, along with other government departments and agencies and Transport Canada, in the co-ordination of a safety pilot project to test the results of operating in the province of Nova Scotia a school bus that had the seats reversed and was equipped with seatbelts.

PUBLIC EDUCATION GRANTS AND FINANCE

The Public Education Grants and Finance division is responsible for: (1) distributing the global, non-global, and non-formula grants authorized in accordance with government legislation, regulations, and policies; (2) collecting, analysing, and interpreting (in co-operation with the Research division) financial and operational information from district school boards in Nova Scotia to assist decision making in funding and other policy areas; and (3) performing compliance audits on non-global grants to assess adherence to the regulations and policies under which such grants are disbursed. The division is staffed by a director, four audit officers (two in Halifax, one each in Liverpool and Truro), and a secretary.

During the strategic planning exercise undertaken in late 1986, the department identified the need to enhance its leadership role in improving school board financial management and ensuring that public funds for education are used as effectively as possible. As a result, a new Director of Publication Education Grants and Finance was hired in September 1987. Further strategic planning was undertaken in late 1987, and a revised mandate for the division was developed.

While retaining the historical role of disbursing grants, collecting district school board financial information, and performing compliance audits, the division will develop and implement an expertise in reviewing district school board financial management practices to assess whether public resources are being wisely managed.

Steps were taken during the year to initiate this process. A financial review of the Annapolis District School board was undertaken in late 1987. The review concentrated on an assessment of the board's financial management practices in key areas such as financial planning, budgeting, and financial reporting.

The Public Education Grants and Finance division often assists in conducting system surveys undertaken by the Inspection Services division. Significant input was provided in revising the approach to the financial review portion of these full board surveys. The new approach followed and improved upon the Annapolis District School Board review and was implemented during the Dartmouth District School board survey in the spring of 1988. The long-range plan is to develop an appropriate methodology for reviewing on a regular basis the financial affairs of district school boards.

In fulfilling the division's responsibilities, staff are in regular contact with management and staff of district school boards throughout the province. Their assistance and co-operation are gratefully acknowledged.

The grants disbursed by this division accounted for approximately 87 per cent of the department's ordinary expenditures in the 1987-88 fiscal year. Grants to district school boards account for 92 per cent of the total grants. These school board grants fall under the two main categories of "global grants" and "specific purpose grants". The board may use global grants in accordance with its priorities to provide education services as required under the Education Act and Regulations, while specific purpose grants must be used for a specified purpose.

For the calendar years 1988 and 1987, provincial grants (excluding capital debt) to district school boards were as follows:

Global	1988 Budget	1987 Actual
General Formula	\$ 359,539,839	\$ 345,509,029
Supplementary	13,100,452	9,000,585
Property Service	65,404,920	62,796,900
Transportation	38,183,158	36,592,389
	<u>476,228,369</u>	<u>453,898,903</u>
Non-Global		
Adult Education	2,278,390	2,245,774
Special Education	31,925,277	30,287,178
Driver Education	619,155	580,659
Summer School	935,491	805,967
Board of Pupils	343,239	250,056
Capital Equipment,		
Repairs & Renovations	8,183,294	8,513,092
	<u>44,284,846</u>	<u>42,682,726</u>
Total	\$ 520,513,215	\$ 496,581,629

For the calendar year 1987, sources of funds received by district school boards were:

Province of Nova Scotia	\$ 532,268,916	81.3%
Municipal units	103,491,268	15.8%
Board-generated revenues	19,056,862	2.9%
	<u>\$ 654,817,046</u>	<u>100.0%</u>

Aside from revisions to the actual funding formula rates, there were few changes made to the funding arrangements for district school boards in 1988. One change was the addition of a flat \$200,000 grant to the basic general formula grants, intended to provide funds to each district school board for board management.

In previous years, the capital equipment, repairs and renovations grant was based on a percentage of the general funding formula. For 1988, a formula was adopted that provided capital funds to district school boards based on student units.

Financial support to school boards in 1988 also included a per pupil credit allocation at the Nova Scotia School Book Bureau, grants for emergency capital purposes, grants for asbestos abatement, and grants to cover capital debt repayment costs on funded debt for approved capital projects.

The Formula Review Committee recommended that staff of the Department of Education hold regional meetings in 1988 to brief school boards and municipal units on the Formula Review Committee report and discuss public education finance issues. Staff of the Public Education Grants and Finance division were involved in the preparation and conduct of these meetings. Six meetings were held throughout the province in the spring of 1988. They proved extremely valuable in identifying problem areas in the present funding arrangements and providing recommendations for improvement.

Other grants administered by the division are disbursed according to special agreements or under the authority of the Minister. For the fiscal year ended March 31, 1988, these grants were as follows:

	1987/88 Budget	1987/88 Actual
District School Board		
Transportation Subsidies	\$ 145,000	126,000
Nova Scotia Teachers Union Group Life and Medical Premiums	5,127,600	4,293,500
Nova Scotia Teachers Union Program Development Fund	150,000	150,000
Shannon Francophone School	1,512,000	1,512,700
French Language Special Projects	660,000	393,800
Maritime Provinces Education Foundation	170,000	158,600
Other Non-formula Grants	204,700	243,700
	<u>\$ 7,969,300</u>	<u>\$ 6,878,300</u>
Grants to Atlantic Provinces		
Special Education Authority	<u>\$ 8,188,000</u>	<u>\$ 8,345,144</u>

FINANCIAL MANAGEMENT

The Financial Management section is responsible for controlling the internal financial operations of the department and co-ordinating the preparation of the department's budget presentation.

This section also operates the Nova Scotia School Book Bureau, which is the storage and distribution centre for the tests and other learning materials prescribed for use in the public schools of Nova Scotia. Further information describing the bureau's operations is given in the tables and charts section of this report.



TEACHERS' PENSION COMMISSION

TEACHERS' PENSION COMMISSION

A number of amendments to the Teachers' Pension Act were made during the year under review. These were as follows:

- Pension contributions must now be remitted by school boards within 10 days of the pay day as opposed to on the 10th day of the following month.
- Actuarial valuations must now be carried out every three years rather than every five.
- The minimum pension was increased from \$1,200 to \$1,500 per year.
- Any residual balance remaining in a pensioner's account when there is no one left who is eligible for pension will now be paid to all surviving children in equal shares; previously the residual balance was paid to the last person in receipt of a pension.
- The one-year time limit on back payments for disability pensions has been removed.
- Pensioners who returned to teaching may now only work for 69½ days before their pension ceases to be paid; previously they were allowed to work for 94½ days.
- The Teachers' Pension Commission has been given the authority to make regulations, subject to the approval of the Governor in Council, regarding granting pension credit for maternity leave and for job-sharing programs.

Statistical information on the Teachers' Pension Fund is included in the Tables and Charts section of this report.

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**SUMMARY OF STATISTICS
1987-88**

	1987-88	Increase (Decrease) from 1986-87
School Boards (1987-88 Academic Year)¹		
Number of boards, September 30	22	0
Number of schools, September 30	532	(9)
Teachers, September 30	10,708	44
Pupils, September 30	169,474	(1,394)
Elementary (P-6 plus special education)	87,752	(793)
Junior high (7-9 plus special education)	41,896	(1,164)
Senior high (10-12 business education, vocational, ¹ and special education)	39,826	563
Pupil/teacher ratio (full-time equivalent)	16.2	(.2)
Average class size	22.2	(.1)

Expenditures on Public School Education (1987 Calendar Year)²

Municipal contribution	\$103,491,268	\$ 496,836
Other board revenues	21,487,914	(2,709,102)
Provincial grants (operating and capital)	532,272,539	30,320,224
Total expenditure	\$657,251,721	\$28,107,958
Per capita expenditure ³	753	54
Per pupil expenditure ⁴	3,878	196
Percentage of provincial grant to total school board expenditure	81.0%	.7

¹Does not include students in the 11 regional vocational schools operated by the Department of Advanced Education and Job Training.

²Final expenditures by school boards as reported in school board financial statements.

³Based on estimated total population of Nova Scotia.

⁴Total school board expenditure less adult education.

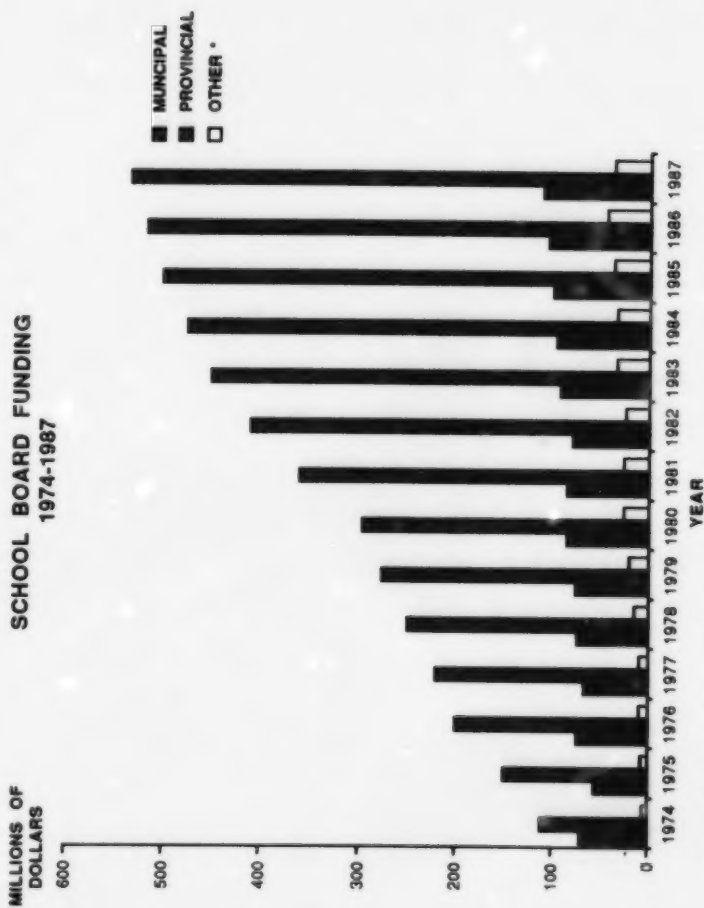
**SUMMARY OF GRANTS TO SCHOOL BOARDS
AND CALCULATION OF COST PER PUPIL
1978-1987**

Calendar Year	Number Teachers Sept. 30	Enrolment Sept. 30	Provincial Grants	Municipal Appropriations	Other Board Revenues*	Total Funding	Expend- iture Per Pupil**
1978	11,101	194,070	247,727,148	65,699,052	9,296,900	322,723,100	1,663
1979	11,072	189,258	269,852,270	69,728,230	12,070,200	351,650,700	1,858
1980	11,016	185,585	292,324,141	82,810,059	15,211,100	390,345,300	2,103
1981	11,000	181,685	352,634,185	82,461,345	13,356,832	448,452,362	2,468
1982	10,961	179,302	410,045,141	80,364,343	13,367,676	503,777,160	2,810
1983	10,770	177,240	447,930,131	85,679,306	20,474,781	554,084,218	3,126
1984	10,814	175,182	468,628,745	88,593,439	20,451,694	577,673,878	3,298
1985	10,751	172,614	490,848,165	96,924,005	22,685,653	610,457,823	3,537
1986	10,664	170,868	501,952,315	102,994,432	24,197,016	629,143,763	3,682
1987	10,708	169,478	532,272,539	103,491,268	21,487,914	657,251,721	3,978

* Other Board Revenues include board-generated operating revenue (e.g., rental of facilities, investment income), federal revenue (e.g., DND payments, French programs), tax rebates, payments from other boards, and revenue from reserves or prior surplus.

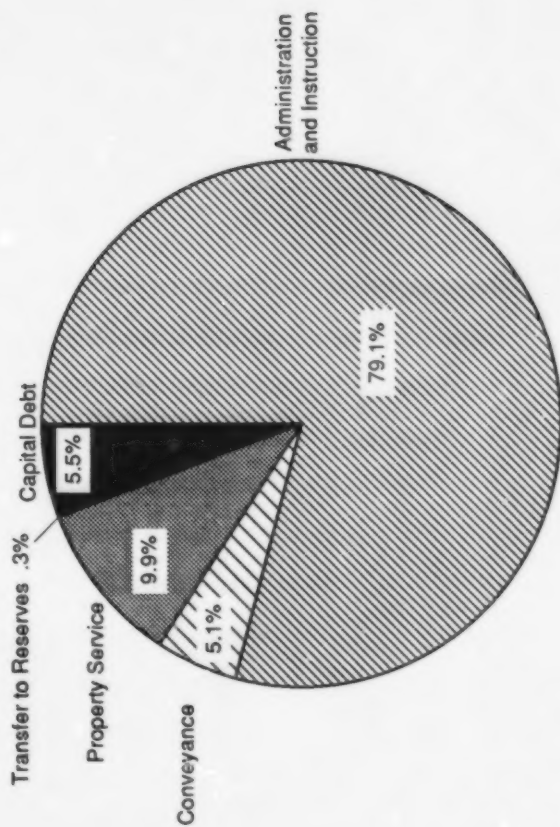
** Excludes the cost of adult education at the school board level.

Does not include the eleven regional vocational school boards.

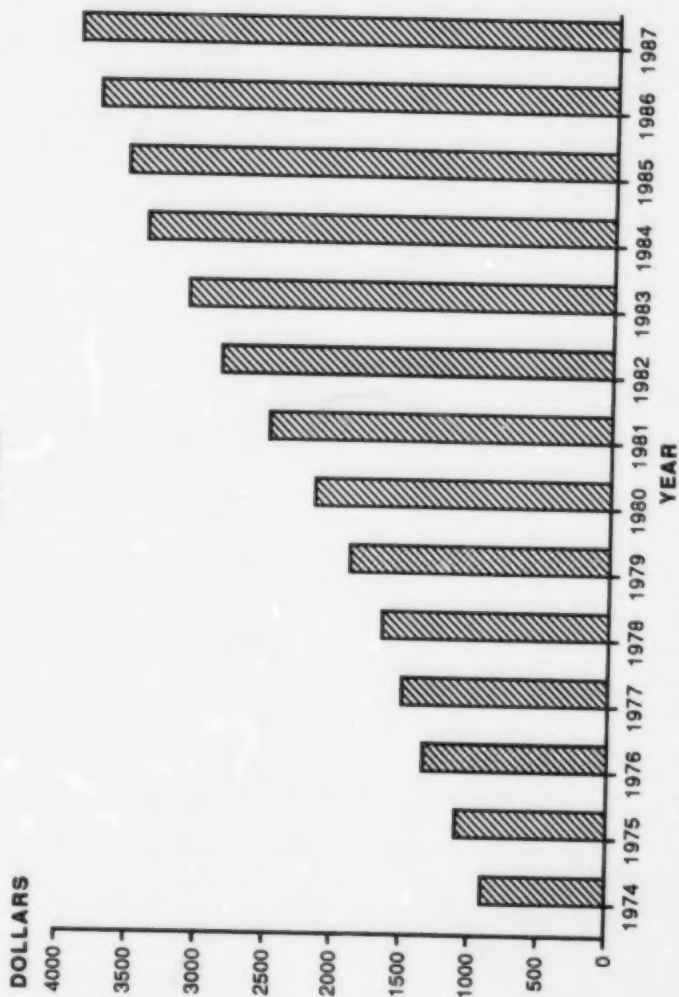


* "Other" includes board-generated revenue, federal revenue, tax rebates, income from other sources, and revenue from reserves.

**SCHOOL BOARD EXPENDITURES
1987 CALENDAR YEAR**



Total School Board Expenditures: \$657,729,181

TOTAL EXPENDITURES PER PUPIL*
1974-1987

*Includes cost for operating and capital.

NOVA SCOTIA DEPARTMENT OF EDUCATION

SUMMARY OF OPERATING EXPENDITURES*
FOR THE PERIOD APRIL 1, 1987 TO MARCH 31, 1988

Senior Management		\$ 697,551
Grants and Assistance		
School Board Grants	\$551,857,649	
School Book Bureau	5,596,441	
Student Aid	9,953,039	
Finance and Budgeting		567,407,129
Teachers Pensions		3,419,398
Curriculum Development		29,718,336
Education Resource Services		6,121,081
Inspection Services		6,177,881
Program Services		1,216,650
Nova Scotia Teachers College		725,738
less charge to MPHEC		—
Total Expenditures		\$615,483,764

* All figures are net of revenue and less chargeables.

NOTE: In addition to operating expenditures, total capital grants to district school boards and capital expenditures by the Department of Education were \$9,515,704.

ENROLMENTS BY AGE, GRADE, AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1987

[illegible]

**ENROLMENTS BY AGE, GRADE, AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1987
(Continued)**

Grade	5 & Under	21 &																	Total	
		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Over			
Elem EMH	M	1	8	38	41	53	62	40	38	9	3							M	294	
	F	1	2	9	23	34	25	39	23	14	1	2	1	1	1			F	176	
	T	2	3	17	61	75	78	101	63	52	10	5	1	1				T	470	
Elem TMH	M	9	6	7	8	16	15	20	24	11	6	2	5	3	3	1	2	1	M	139
	F	2	6	10	13	6	9	16	11	9	3	5	3	2	4	2		F	107	
	T	11	12	17	21	22	21	29	40	22	15	5	10	6	5	4	1	T	246	
Elem Other	M	6	18	29	12	23	34	35	37	6	3	5		2				M	210	
	F	3	15	16	12	13	12	14	29	4	1	1						F	120	
	T	9	33	45	24	36	46	49	66	10	4	6	2					T	330	
Elementary Sub-Total	M	6204	6045	6192	6134	6055	6163	6410	1686	387	49	14	5	5	3	1	2	1	M	45356
	F	5808	5911	5934	6011	5859	5897	5859	890	173	17	8	7	4	2	5	2		F	42387
	T	12012	11956	12126	12145	11914	12060	12269	2576	560	66	22	12	9	5	6	4	1	T	87743
Grade 7	M						178	4652	1515	671	132	17	1	1				M	7167	
	F					1	264	4880	979	314	65	6	2					F	6511	
	T					1	442	9532	2494	985	197	23	3	1				T	13678	
Grade 8	M							164	4274	1549	792	178	39	8	1	1		M	7006	
	F						2	239	4740	1146	407	105	21	3	4			F	6667	
	T						2	403	9014	2695	1199	283	60	11	5	1		T	13673	
Grade 9	M								210	4129	1645	820	205	30	8		2	M	7049	
	F							3	263	4681	1135	458	117	35	5	1	1	F	6699	
	T							3	473	8810	2780	1278	322	65	13	1	3	T	13748	

ENROLMENTS BY AGE, GRADE, AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1987
 (Continued)

Grade	5 & Under										21 & Over								Total
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Over			
JrEMH	M	1	2		2	5	15	44	61	52	22	16	8	8	5	1	M	242	
	F			1		1	7	28	26	35	8	8	1	2			F	125	
	T	1	2	1		2	6	22	72	87	87	30	24	16	9	7	1	T	367
JrTMH	M				1	1	3	2	10	18	9	9	8	9	8	1	M	79	
	F				1	1	2	8	4	12	10	12	5	5	5	2	F	66	
	T				1	2	5	10	14	30	19	21	13	14	13	3	T	145	
JrOther	M			1	4	3	15	44	48	38	19	11	3	3		9	M	198	
	F	1		1			4	12	29	21	13	10	4	1	4		F	100	
	T	1	1	1	1	4	3	19	56	77	59	32	21	7	4	4	9	T	298
JrLevel Sub-Total	M	1	2	1	7	187	4849	6089	6468	2677	1065	281	58	29	14	13	M	21741	
	F	1	1	1	1	268	5135	6030	6200	1675	600	170	55	16	12	3	F	20168	
	T	1	1	3	2	8	455	9984	12119	12668	4352	1665	451	113	45	26	16	T	41909
Grade 10	M							1	168	3938	1710	888	321	98	26	12	M	7162	
	F								231	4605	1258	524	156	48	13	21	F	6856	
	T							1	399	8543	2968	1412	477	146	39	33	T	14018	
Grade 11	M							2	214	3614	1347	533	165	45	20	M	5940		
	F								251	4493	1036	371	92	34	34	F	6313		
	T							2	465	8107	2385	904	257	79	54	T	12253		
Grade 12	M								4	189	3191	1482	518	155	71	M	5610		
	F								1	285	3881	1127	314	96	94	F	5798		
	T								5	474	7072	2609	832	251	165	T	11408		
SrBE	M										2	8	3	1	2	M	16		
	F									2	63	49	34	22	45	F	215		
	T									2	65	57	37	23	47	T	231		

ENROLMENTS BY AGE, GRADE, AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1987
 (Continued)

Grade	5 & Under																	21 & Over			Total
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Over					
SrEMH	M									2	11	37	24	35	9	2	3	M	123		
	F										3	23	22	19	5	2		F	74		
	T								2		14	60	46	54	14	4	3	T	197		
SrTMH	M										1	4	4	6	6	5	1	M	27		
	F										4	1	2	5	5	6	1	F	19		
	T									1	8	5	8	11	11	2	T	46			
SrOther	M										18	39	27	16	17	10	11	M	138		
	F									5	21	13	3	5	2		F	49			
	T									23	60	40	19	22	12	11	T	187			
SrLevel	M																				
	F									1	172	4186	5593	5483	2401	816	244	120	M	19016	
	T									1	403	9051	11679	11025	4128	1319	419	315	T	38340	
Voc 1	M										18	36	51	118	71	58	70	M	422		
	F										7	11	20	87	75	34	79	F	313		
	T										25	47	71	205	146	92	149	T	735		
Voc 2	M										1	37	28	40	57	40	40	M	243		
	F										1	24	26	16	26	3	13	F	109		
	T										2	61	54	56	83	43	53	T	352		
Voc 3	M											1	23	27	20	3	1	M	75		
	F												31	7	8	5	2	F	53		
	T												1	54	34	28	8	3	T	128	
Voc Other	M																	M	177		
	F									1	30	75	48	16	7			F	94		
	T									1	52	109	75	24	9	1		T	271		

ENROLMENTS BY AGE, GRADE, AND SEX
PROVINCIAL SUMMARY, SEPTEMBER 30, 1987
(Continued)

Grade	5 & Under	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 & Over	Total
District Vocational (excluding regional vocational)																		
Sub-Total	M								1		49	149	150	201	155	101	111	M 917
F											30	69	104	118	111	43	94	F 569
T									1		79	218	254	319	266	144	205	T 1486
District	M	6204	6045	6193	6136	6056	6170	6597	6535	6477	6690	6926	6812	5919	2663	1001	361	M 87030
Boards	F	5808	5912	5934	6012	5860	5898	6127	6025	6203	6448	6578	6762	5820	1902	635	232	F 82448
Total	T	12012	11957	12127	12148	11916	12068	12724	12560	12680	13138	13504	13574	11739	4565	1636	593	T 169478
Voc 1	M										6	41	131	444	429	240	362	M 1853
F											5	12	39	349	267	134	487	F 1293
T											11	53	170	793	696	374	849	T 2946
Voc 2	M											3	27	81	271	244	261	M 887
F													8	18	102	63	82	F 273
T												3	35	99	373	307	343	T 1160
Voc Other	M										10	43	40	24	12	4	4	M 137
F												2	1	2	1			F 6
T											12	44	42	25	12	4	4	T 143
Regional	M										16	87	198	549	712	488	627	M 2677
Vocational	F										7	13	49	368	369	197	569	F 1572
Sub-Total	T										23	100	247	917	1081	685	1196	T 4249
Provincial	M	6204	6045	6193	6136	6056	6170	6597	6535	6477	6690	6942	6899	6117	3212	1713	849	M 89707
Grand Total	F	5808	5912	5934	6012	5860	5898	6127	6025	6203	6448	6585	6775	5869	2270	1004	429	F 84020
T		12012	11957	12127	12148	11916	12068	12724	12560	12680	13138	13527	13674	11986	5482	2717	1278	T 173727

ENROLMENTS BY SCHOOL BOARD*
1978-79 TO 1987-88

School Board	78/79	79/80	80/81	81/82	82/83	83/84	84/85	85/86	86/87	87/88
Annapolis	4845	4694	4643	4501	4496	4396	4327	4219	4220	4181
Antigonish	4927	4911	4901	4900	4842	4861	4826	4783	4753	4660
Cape Breton	24887	24119	23441	22909	22371	21928	21323	20768	20306	20066
Clare-Argyle	3982	3946	3848	3722	3665	3554	3459	3344	3285	3240
Colchester-E. Hants	13894	13573	13268	13266	13257	13245	13232	13210	13284	13317
Cumberland	7858	7641	7418	7238	7167	6983	6843	6641	6546	6412
Dartmouth	15142	14298	13620	13073	12541	12088	11823	11443	11389	11201
Digby	2757	2686	2664	2600	2533	2526	2501	2477	2326	2261
Guysborough	3120	3071	3050	3048	2989	2951	2878	2740	2708	2678
Halifax	19788	18798	18156	17348	16902	16540	15958	15430	14929	14713
Halifax Co.-Bedford	27225	27262	27239	27220	27363	27608	27924	28186	28607	29049
Hants West	4080	3916	3884	3701	3616	3605	3648	3714	3661	3680
Inverness	5736	5673	5561	5440	5383	5194	5150	5070	4942	4841
Kings	11843	11476	11334	11107	11060	11165	11060	11141	11060	10969
Lunenburg	9051	8943	8837	8752	8714	8644	8689	8537	8520	8394
Northside-Victoria	9173	8891	8701	8445	8203	7950	7759	7596	7406	7282
Pictou	11377	11303	11352	11153	11138	11080	11008	10831	10746	10620
Queens	2938	2875	2786	2728	2696	2704	2670	2648	2607	2529
Richmond	3427	3361	3250	3104	3055	3034	2961	2855	2719	2614
Shelburne	3825	3677	3624	3588	3547	3477	3457	3380	3274	3245
Yarmouth	3863	3820	3690	3545	3486	3435	3418	3337	3318	3283
Hantsport	332	324	318	297	278	272	268	264	262	243
Provincial Totals	194070	189258	185585	181685	179302	177240	175182	172614	170868	169478

* For the years prior to the formation of the district school boards, the figures represent the total enrolments in the areas now served by the district boards.

PUPIL/TEACHER RATIO BY SCHOOL BOARD*
1980-81 TO 1987-88

School Board	80/81	81/82	82/83	83/84	84/85	85/86	86/87	87/88
Annapolis	17.2	16.5	16.6	16.4	16.1	16.6	17.5	16.7
Antigonish	17.6	17.6	17.7	17.9	17.4	17.3	17.0	16.3
Cape Breton	17.6	17.3	17.2	17.4	16.9	16.7	16.9	16.8
Clare-Argyle	17.0	16.5	16.0	15.4	15.1	15.6	15.3	14.9
Colchester-E. Hants	18.5	18.5	18.0	17.9	17.7	17.7	17.7	17.6
Cumberland	17.2	16.8	17.0	17.5	17.2	17.0	16.8	16.6
Dartmouth	16.3	16.2	15.3	15.0	15.2	15.1	15.5	15.0
Digby	16.5	16.0	15.8	16.4	16.5	16.2	15.3	15.4
Guysborough	16.2	16.2	16.0	15.5	15.2	15.2	15.5	15.3
Halifax	14.1	13.8	13.7	14.1	13.5	13.4	13.3	13.4
Halifax Co.-Bedford	17.0	16.7	16.9	17.4	17.2	16.9	16.9	16.8
Hants West	18.6	18.2	17.3	17.5	18.0	17.8	17.1	16.8
Inverness	16.1	15.4	15.9	16.0	16.0	16.3	16.2	15.8
Kings	17.2	17.1	16.9	17.0	16.7	16.8	16.8	16.3
Lunenburg	18.5	18.1	17.7	17.6	17.8	17.4	17.8	17.4
Northside-Victoria	17.3	17.2	16.7	16.8	16.7	16.5	16.5	16.6
Pictou	19.6	19.3	18.0	17.6	17.3	17.4	17.1	16.9
Queens	18.6	18.6	18.0	17.4	17.4	16.7	16.7	16.5
Richmond	14.8	14.1	14.5	15.6	15.6	15.2	14.5	14.1
Shelburne	17.7	17.7	17.7	17.2	17.9	17.4	17.1	17.6
Yarmouth	18.3	17.8	16.9	17.4	17.5	17.2	17.9	17.7
Hantsport	17.3	18.1	15.1	15.6	15.4	15.2	15.1	14.2
Provincial Totals	17.0	16.8	16.5	16.7	16.5	16.4	16.4	16.2

* For the years prior to the formation of the district school boards, the figures represent the ratios in the areas now served by district boards.

TEACHERS BY CERTIFICATE AND YEARS OF SERVICE***September 30, 1987**

Certificate	Total	TEACHING YEAR										Max
		1	2	3	4	5	6	7	8	9	10	
TC8	437	1			1	1	2	1	1	3	5	422
TC7	1369	2	1		2	3	11	12	8	25	35	1270
TC6	3636	20	4	12	27	36	61	83	103	106	139	3045
TC5	4071	180	137	134	139	112	136	150	164	167	193	2559
TC4	738	17	16	18	25	29	27	28	31	28		519
TC3	241				2		2	4	3			230
TC2	97											97
TC1	13											13
Permit	1	1										
VTC IV	27						1				3	23
VTC III	16					1	1	1		2	2	9
VTC II	51				3	1	3	2	3	1	4	34
VTC I	2			1								1
VTPA	9	5	3									1
Provincial Total	10708	226	161	165	199	183	244	281	313	332	381	8223

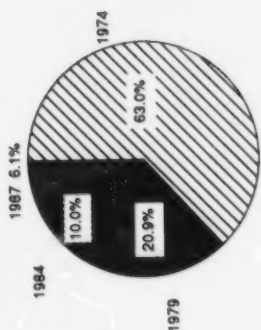
* Excludes the following teaching positions: sabbatical leave, Department of National Defence, substitutes, Term B and C, leave of absence, educational leave, and sick leave.

TEACHERS BY CERTIFICATE AND BOARD*
September 30, 1987

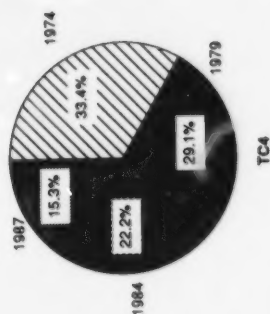
School Board	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	PER- EXCH		VTC4	VTC3	VTC2	VTC1	VPA
										MIT	AGMT*					
Annapolis	259	3	14	90	110	28	7	5	1		1					
Antigonish	288	10	47	94	101	26	7	2						1		
Cape Breton	1212	89	185	489	354	54	28	13								
Clare-Argyle	221	2	28	66	98	14	9	4								
Colchester-E. Hants	770	23	79	257	300	69	10	1	1			12	5	10	1	2
Cumberland	398	6	22	98	199	46	15	9						3		
Dartmouth	771	40	123	292	266	35	10		1	1				2		
Digby	149	2	15	37	73	17	4							1		
Guysborough	177	2	20	59	68	19	2	4						1		
Halifax	1131	103	220	400	350	31	12	3	2					2		
Halifax Co.-Bedford	1774	62	248	606	715	86	35	11	2	2	2			3		2
Hants West	226	6	19	74	102	16	2	4	1			1		2		2
Inverness	310	9	27	116	126	20	6	6								
Kings	704	16	79	215	290	53	10	5	1		1	9	3	20		2
Lunenburg	498	9	50	158	197	54	25	1	1		3					
Northside-Victoria	443	20	50	156	133	34	20	12	2			5	2	7	1	1
Pictou	641	19	66	203	279	50	13	9			2					
Queens	156	4	18	37	73	19	3	2								
Richmond	186	7	24	64	63	15	10	3								
Shelburne	185	4	19	45	86	22	6	2								
Yarmouth	188	1	13	64	76	25	7	1	1					1		
Hantsport	21		2	8	8	3										
Provincial Totals	10708	437	1368	3628	4067	736	241	97	13	1	15	27	16	51	2	9

* EXCH AGMT: These are teachers on exchange arrangements.

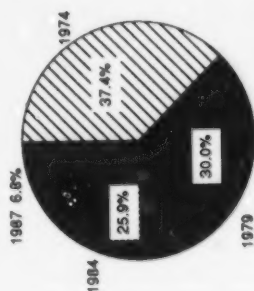
TEACHERS BY CERTIFICATE FOR SELECTED YEARS



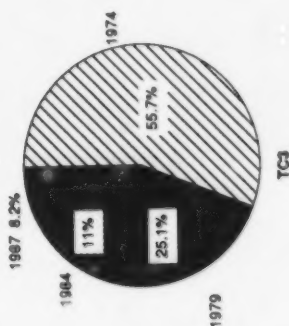
TC2



TC4



TC1*



TC3

* Includes TC1 and under

NUMBER OF TEACHERS BY BOARD*
1978/79 To 1987/88

School Board	78/79	79/80	80/81	81/82	82/83	83/84	84/85	85/86	86/87	87/88
Annapolis	280	284	280	279	274	274	273	261	247	259
Antigonish	277	280	279	279	274	271	277	277	280	288
Cape Breton	1370	1354	1335	1330	1301	1265	1274	1253	1218	1212
Clare-Argyle	233	235	227	228	231	233	229	216	218	221
Colchester-E. Hants	718	725	720	728	743	748	754	753	763	770
Cumberland	439	439	438	438	425	404	407	400	403	398
Dartmouth	895	884	848	827	838	825	801	780	762	771
Digby	164	159	161	163	160	154	152	153	154	149
Guysborough	191	188	188	189	187	190	190	182	177	177
Halifax	1382	1335	1319	1274	1254	1194	1206	1178	1149	1131
Halifax Co.-Bedford	1563	1573	1623	1661	1642	1606	1654	1707	1733	1774
Hants West	213	215	209	205	210	207	205	214	221	226
Inverness	348	349	351	357	343	327	324	315	307	310
Kings	669	671	664	664	667	675	695	698	694	704
Lunenburg	463	477	486	494	505	506	503	507	497	498
Northside-Victoria	524	509	505	492	491	477	468	465	453	443
Pictou	569	588	584	593	625	639	645	631	637	641
Queens	149	151	150	149	151	157	155	159	162	156
Richmond	222	224	220	221	211	194	190	188	188	186
Shelburne	207	208	207	205	201	204	195	196	193	185
Yarmouth	206	206	203	206	209	202	199	200	189	188
Hantsport	19	18	19	18	19	18	18	18	19	21
Provincial Totals	11101	11072	11016	11000	10961	10770	10814	10751	10664	10708

* For the years prior to the formation of the district school boards, the figures represent the number of teachers in the areas now served by the district boards.

TEACHERS BY CERTIFICATE, AGE, AND SEX
September 30, 1987
(Continued)

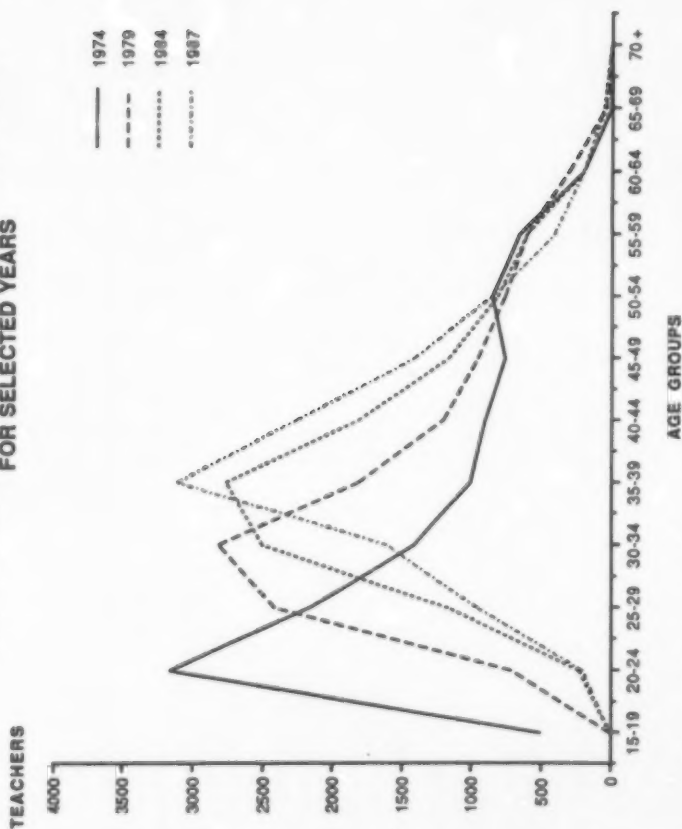
Certificate	Total	20		25		30		35		40		45		50		55		60		65		70	
		To	24	To	29	To	34	To	39	To	44	To	49	To	54	To	59	To	64	To	69	To	70 and Over
TC 1																							
	Male																						
	Female	13											1		4		5		3				
	Total	13											1		4		5		3				
Permit																							
	Male																						
	Female	1	1																				
	Total	1	1																				
Exchange																							
	Male	5		1		1		1		2													
	Female	10		1		3		5															
	Total	15		2		4		6															
VTC IV*																							
	Male	23				1		1					9		7		3		2				
	Female	4											1		1				1				
	Total	27				1		1					10		8		3		3				
VTC III*																							
	Male	16						2		4		4		4			2						
	Female																						
	Total	16						2		4		4		4			2						
VTC II*																							
	Male	44				1		5		11		13		8			3		3				
	Female	7				1		2		2		1		1			1		2				
	Total	51				2		7		11		14		8			4		5				

TEACHERS BY CERTIFICATE, AGE, AND SEX
September 30, 1987
(Continued)

Certificate	Total	20		25		30		35		40		45		50		55		60		65		70 and Over
		To	From	To	From	To	From	To	From	To	From	To	From	To	From	To	From	To	From	To	From	
VTC I*	Male									1				1								
	Female	2																				
	Total	2								1				1								
VTP A*	Male	7				2		2		2										1		
	Female	2		1		1																
	Total	9		1		3		2		2										1		
Total*	Male	4395	34	218	548	1263	1187	647	328	126	44											
	Female	6313	150	626	1053	1757	1045	771	536	287	87	1										
	Total	10708	184	844	1601	3020	2232	1418	864	413	131	1										

* Excludes regional vocational school boards.

AGE DISTRIBUTION OF NOVA SCOTIA TEACHERS FOR SELECTED YEARS



Note: Includes teachers in regional vocational schools

TEACHERS BY LEVELS TAUGHT AND CERTIFICATE
September 30, 1987*

School/Board	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	PER- EXCH		VTC4	VTC3	VTC2	VTC1	VPA
										MIT	AGMT ^b					
Single Level																
Elementary	5422	110	425	1695	2403	510	173	83	13		10					
Junior	3472	122	442	1258	3744	222	64	14			1		2	6		
Senior	2741	157	457	1071	887	93	26	6		1	2	8	6	22	1	4
Vocational	101	1	5	12	25	1					1	17	8	25	1	5
Multi-Level																
Elementary—Junior	578	26	78	219	211	38	5	1								
Elementary—Senior	195	18	33	77	61	2	1	3								
Junior—Senior	1022	36	108	384	411	56	21	3						3		
Senior—Vocational	1		1													
Board supervisory personnel ¹	187	39	79	55	14											
School supervisory personnel ²	410	72	151	146	29	4	4				1	2		1		
Provincial Total	10708	437	1368	3628	4067	736	241	97	13	1	15	27	16	51	2	9

* Level categories overlap, e.g., a teacher of grades 6 and 7 is reported under the categories 7-9, 7-12, P-12.

1. Chief education officers, curriculum supervisors, sub-system supervisor.

2. Non-teaching principals and vice-principals.

TEACHERS BY CERTIFICATE AND DEGREE
September 30, 1987

Certificate	Percentage with Degree
TC8	96.6
TC7	93.0
TC6	79.2
TC5	64.7
TC4	11.8
TC3	.4
TC2	
TC1	
Permit	
VTC IV	25.9
VTC III	
VTC II	
VTC I	
VPA	22.2
Total	68.2

RATIO OF ADMINISTRATORS, SPECIALISTS, AND REGULAR TEACHERS PER STUDENT
September 30, 1987

Board	Enrolment 87/88	Administration		Regular and Special Subjects		Total	
		No.	% PTR	No.	% PTR	No.	PTR
Annapolis	4,181	26.0	10.4	160.8	89.6	250.6	16.7
Antigonish	4,660	44.0	15.4	105.9	84.6	286.0	16.3
Cape Breton	20,066	150.0	13.4	125.4	86.6	1,194.2	16.8
Clare-Argyle	3,240	23.0	10.6	140.9	89.4	217.6	14.9
Colchester-E. Hants	13,317	88.0	11.6	151.3	88.4	756.0	17.6
Cumberland	6,412	45.5	11.8	140.9	88.2	386.6	16.6
Dartmouth	11,201	96.5	13.0	116.1	87.0	745.1	15.0
Digby	2,261	16.0	10.9	141.3	89.1	147.0	15.4
Guysborough	2,678	27.0	15.4	99.2	84.6	175.5	15.3
Halifax	14,713	141.4	12.9	104.1	87.1	1,094.3	13.4
Halifax Co.-Bedford	29,049	241.3	14.0	120.4	86.0	1,724.8	16.8
Hants West	3,680	21.0	9.6	175.2	90.4	219.7	16.8
Inverness	4,841	29.0	9.4	166.9	90.6	307.0	15.8
Kings	10,969	64.0	9.5	171.4	90.5	672.4	16.3
Lunenburg	8,394	61.0	12.7	137.6	87.3	481.8	17.4
Northside-Victoria	7,282	55.0	12.5	132.4	87.5	438.3	16.6
Pictou	10,620	72.0	11.5	147.5	88.5	628.8	16.9
Queens	2,529	18.0	11.7	140.5	88.3	153.5	16.5
Richmond	2,614	28.0	15.1	93.4	84.9	185.5	14.1
Shelburne	3,245	21.0	11.4	154.5	88.6	184.2	17.6
Yarmouth	3,283	23.0	12.4	142.7	87.6	185.3	17.7
Hantsport	243	1.0	5.8	243.0	94.2	17.1	14.2
Total	169,478	1,301.7	12.5	130.2	87.5	10,451.3	16.2

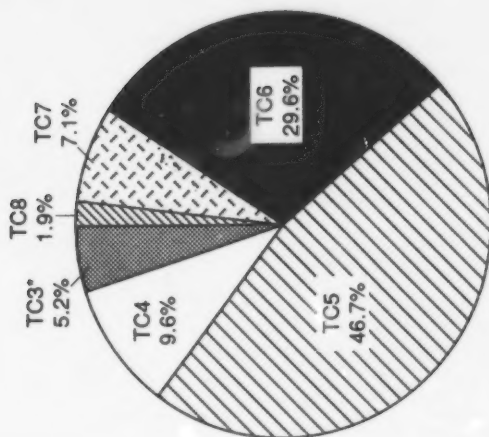
PTR = pupil-teacher ratio

Administration: superintendent, assistant superintendent, principal, vice-principal, supervisor, guidance director, system consultant, and department head.

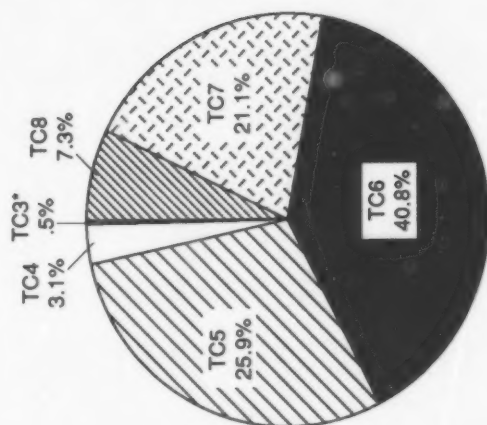
Regular: regular classroom, permanent substitute, home visit, and continuing education.

Special subjects: Special subject teacher — home economics, music, art, physical education, industrial arts, guidance, business education, library, and vocational.

DISTRIBUTION OF TEACHERS BY CERTIFICATE AND SEX
SEPTEMBER 30, 1987



Female



Male

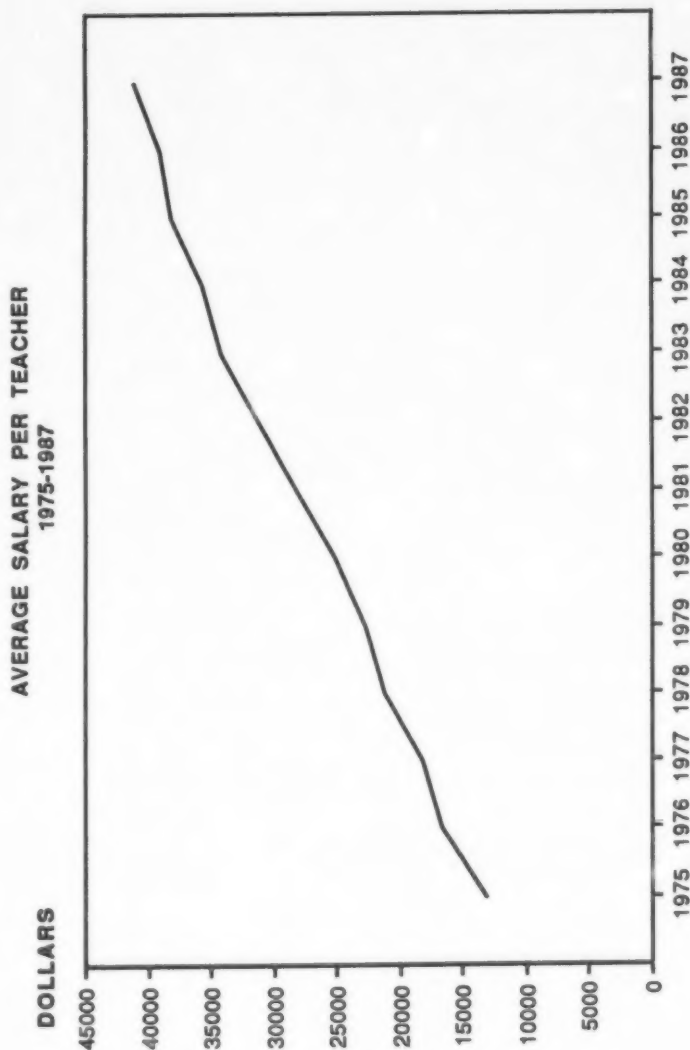
* Includes TC2 and under

TEACHERS BY CERTIFICATE AND POSITION
September 30, 1987

School Board	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	PER- EXCH							
										MIT	AGMT*	VTC4	VTC3	VTC2	VTC1	VPA	
Superintendents & Assistants	Male	44	10	21	12	1											
	Female	1	1														
	Total	45	11	21	12	1											
Supervisors and system consultants	Male	91	24	40	22	3	1								1		
	Female	70	11	20	26	13											
	Total	161	35	60	48	16	1								1		
Principals	Male	387	64	147	147	25	3							1			
	Female	112	7	28	33	25	11	6	2					1			
	Total	499	71	175	180	50	14	6	2					1			
Vice-principals	Male	266	36	107	99	17	3	2						1			
	Female	80	1	24	31	19	3	2									
	Total	346	37	131	130	36	6	4						1		1	
Department heads	Male	190	25	59	71	30								3	1	1	
	Female	64	5	9	25	23	1	1									
	Total	254	30	68	96	53	1	1						3	1	1	
Regular class- room teachers and specialists	Male	3417	161	553	1413	1052	126	22	2					5	18	15	41
	Female	5986	92	360	1749	2859	588	208	93	13				1	10	4	7
	Total	9403	253	913	3162	3911	714	230	95	13				1	15	22	48
Totals	Male	4395	320	927	1764	1128	133	24	2	0				0	5	23	16
	Female	6313	117	441	1864	2939	603	217	95	13				1	10	4	0
	Total	10708	437	1368	3628	4067	736	241	97	13				1	15	27	16

AVERAGE SALARY PER TEACHER
September 30, 1987

	Number of Teachers	Average Salary
Basic salary	10,708	\$39,784
Supervisory allowance	1,305	\$ 5,242
Total salary	10,708	\$40,423



Based on salary in effect in September of each year.

**NOVA SCOTIA TEACHERS' PENSION FUND
AUDITOR'S REPORT**

To the Chairman and Members of the
Nova Scotia Teachers' Pension Commission and to
the Minister of Finance

I have examined the balance sheet of the Nova Scotia Teachers' Pension Fund as at March 31, 1988 and the statement of continuity of fund for the year then ended. My examination was made in accordance with generally accepted auditing standards and accordingly, included such tests and other procedures as I considered necessary in the circumstances.

In my opinion, these financial statements present fairly the financial position of the Fund as at March 31, 1988 and the continuity of the fund for the year then ended, in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

O.P. Cormier, F.C.A.
Auditor General

Halifax, Nova Scotia
July 22, 1988

**PROVINCE OF NOVA SCOTIA
NOVA SCOTIA TEACHERS' PENSION FUND
BALANCE SHEET
AS AT MARCH 31, 1988**

Assets

	1988	1987
Cash	\$ 840,819	\$ 1 021,224
Accounts receivable	9,228,601	8,486,593
Accrued interest receivable	<u>17,133,484</u>	<u>15,801,189</u>
	<u>27,202,904</u>	<u>25,309,006</u>
Investments (Note 2)		
Short term deposits	118,088,926	82,407,336
Bonds and debentures	520,674,647	526,903,278
Mortgages	3,899,672	5,013,260
Common and preferred shares	<u>69,314,963</u>	<u>17,878,117</u>
	<u>711,978,208</u>	<u>631,901,991</u>
	<u>\$739,181,112</u>	<u>\$657,210,997</u>

Liabilities and Fund Balance

Accounts payable	\$ 6,317,317	\$ 5,018,507
Fund balance	<u>732 863,795</u>	<u>652,192,490</u>
	<u>\$739,181,112</u>	<u>\$657,210,997</u>

**PROVINCE OF NOVA SCOTIA
NOVA SCOTIA TEACHERS' PENSION FUND
STATEMENT OF CONTINUITY OF FUND
FOR THE YEAR ENDED MARCH 31, 1988**

	1988	1987
Balance, beginning of year	<u>\$652,192,490</u>	<u>\$568,153,269</u>
Add: Teachers' contributions	30,231,360	27,004,026
Government contributions	30,231,360	27,004,026
Purchase of prior service	3,237,014	2,286,916
Transfers from other pension funds	1,066,719	774,650
Income earned on investments	70,115,107	65,296,786
Amortization of discount and premium on investments	839,301	780,822
Gain on sale of investments (Note 3)	<u>426,379</u>	<u>8,906,451</u>
	<u>136,147,240</u>	<u>132,053,677</u>
Deduct: Expenses (Note 4)	914,937	418,544
Pensions paid	52,143,196	45,394,857
Refund of contributions	1,163,932	1,045,404
Transfers to other pension funds	<u>1,253,820</u>	<u>1,155,651</u>
	<u>55,475,935</u>	<u>48,014,456</u>
Balance, end of year	<u><u>\$732,863,795</u></u>	<u><u>\$652,192,490</u></u>

**PROVINCE OF NOVA SCOTIA
NOVA SCOTIA TEACHERS' PENSION FUND
NOTES TO FINANCIAL STATEMENTS
MARCH 31, 1988**

1. Authority

Teachers in the Province are entitled to receive pension benefits pursuant to the provisions of a plan established under the Teachers' Pension Act. The operation of the plan is conducted within the Teachers' Pension Fund to which teacher and employer matching contributions and investment income are credited, and payments to pensioners and terminating teachers are charged. The Teachers' Pension Fund is invested in federal, provincial, municipal and corporate securities and mortgages eligible for investment under the Provincial Finance Act.

2. Valuation of Investments

Bonds, debentures, and coupons of \$520,674,647 (1987, \$526,603,278) are valued at cost adjusted for the amortization of discounts and premiums over the life of the related security. The face value and the market value of these bonds, debentures and coupons as at March 31, 1988, were \$541,381,500 (1987, \$547,977,500) and \$554,152,328 (1987, \$598,731,650) respectively. Generally, investments in bonds and debentures are made with the intention to retain them until maturity at which time they are redeemed for their face value, unless there is an opportunity to exchange or dispose of the bonds and debentures to obtain a higher yield.

Mortgages of \$3,899,672 (1987, \$5,013,260) are valued at their cost and face value adjusted for amortization of premiums and discounts over seven years.

Short term investments are shown at their cost and face value of \$118,088,926 (1987, \$82,407,336) at March 31, 1988.

Common and preferred shares are valued at a cost of \$69,314,963 (1987, \$17,878,117) at March 31, 1988. The market value of these equity investments at that date was \$67,309,538 (1987, \$25,014,156).

3. Gains and Losses on Investments

Gains and losses on bonds and debentures exchanged to obtain a higher yield, as well as gains and losses on disposals of common and preferred shares, are credited or charged to income in the year of disposition.

4. Administration Expenses

The Fund is charged with expenses of the Teachers' Pension Commission and expenses incurred on behalf of the Fund by the Trust and Debt Management section of the Department of Finance.

	1986	1987
Salaries	\$293,334	\$171,788
Supplies and services	56,174	45,647
Professional and special services	222,625	176,433
Travel	16,069	10,457
Pension administration computer system	315,579	—
Other	11,156	14,219
	<u>\$914,937</u>	<u>\$418,544</u>

5. Actuarial Valuation

Actuarial valuations of the Teachers' Pension Fund are required every three years by the Teachers' Pension Act, and provide an estimate of fund liabilities at a point in time, calculated on a basis of various assumptions with respect to pension plan costs and rates of return on investments. The latest report on the actuarial valuation of the Teachers' Pension Fund was dated October 1986, and based on information as of July 31, 1984.

The actuarial valuation projects liabilities for each member on the basis of service earned to date and the projected average salaries at the date of retirement. The actuarial valuation at July 31, 1984, includes assumptions on inflation, rates of return on investments, and an allowance for salary increases based upon service and promotion and increases for non-promotional reasons. The actuarial valuation indicates that at July 31, 1984, the Fund had estimated actuarial liabilities with a present value of \$1,127,125,000, assets of \$456,652,000, and an estimated unfunded actuarial deficiency of \$670,473,000.

NUMBER OF TEACHER-PENSIONERS—JULY 31, 1988

1928 Act					
	On Pension July 31, 1987	Number Added	Deaths	Resumed Teaching	Number on Pension July 31, 1988
Service pensions—men	—	—	—	—	—
Service pensions—women	4	—	2	—	2
Disability pensions—men	—	—	—	—	—
Disability pensions—women	18	—	—	—	18
Dependents' pensions	2	—	—	—	2
Sub-total	24	—	2	—	22
1949 Act					
	On Pension July 31, 1987	Number Added	Deaths	Resumed Teaching	Number on Pension July 31, 1988
Service pensions—men	555	72	11	—	616
Service pensions—women	2070	121	48	—	2143
Reduced service—men	77	5	6	—	76
Reduced service—women	788	17	20	—	785
Disability pension (total)—men	66	12	—	—	78
Disability pension (total)—women	136	7	6	—	137
Disability pension (partial)—men	43	—	—	—	43
Disability pension (partial)—women	151	—	1	—	150
Spouse's pensions	441	40	17	—	464
Sub-total	4327	274	109	—	4492
Total	4351	274	111	—	4518

1928 Decrease . . . 2

1949 Increase . . . 165

**NOVA SCOTIA SCHOOL BOOK BUREAU
STATEMENT OF OPERATIONS
FISCAL YEAR APRIL 1, 1987 TO MARCH 31, 1988**

Disbursements

Purchase of learning materials	\$5,662,361	
Freight and mailing costs	104,400	
Salaries	314,600	
Other	57,400	
		<u>\$6,138,761</u>

Receipts

Sales		<u>\$ 474,200</u>
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Inventories

On hand, March 31, 1987	\$ 686,740
On hand, March 31, 1988	795,800

Quantity of Textbooks and Material Distributed

Textbooks, primary to grade 6	590,000	
Textbooks, grades 7-12	445,000	
Textbooks, special education/specialized reading	12,000	
Textbooks, acadiennes	50,000	
Textbooks, miscellaneous	30,000	
Career education materials	45,000	
		1,172,000
Journal, P & R Releases, Education N.S., Others	138,000	
Cumulative record cards, manuals	18,000	
Teaching guides, curriculum bulletins	17,000	
Miscellaneous	604,000	
		<u>777,000</u>